Page 1 of 2 Filing Receipt for Documents Filed in U.S. Patent and Trademark Office U.S. Serial No.: 09/501,621 Inventor: Mills Date: February 6, 2002

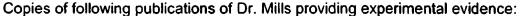
**Enclosed Items:** 

Response to final Office Action- 90 pages Appendix to Response – 168 pages Petition for Three Months Extension Notice of Appeal

Rule 132 Declaration of Dr. Mills

Two (2) Information Disclosure Statements

Check: \$650



- 1. H. Conrads, R. Mills, Th. Wrubel, "Emission in the Deep Vacuum Ultraviolet from an Incandescently Driven Plasma in a Potassium Carbonate Cell", Plasma Sources Science and Technology, submitted.
- 2. R. L. Mills, P. Ray, "Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", Chem. Phys. Letts., submitted.
- 3. R. L. Mills, B. Dhandapani, J. He, "Synthesis and Characterization of a Highly Stable Amorphous Silicon Hydride", Int. J. Hydrogen Energy, submitted.
- 4. R. L. Mills, A. Voigt, B. Dhandapani, J. He, "Synthesis and Characterization of Lithium Chloro Hydride", Int. J. Hydrogen Energy, submitted.
- 5. R. L. Mills, P. Ray, "Substantial Changes in the Characteristics of a Microwave Plasma Due to Combining Argon and Hydrogen", New Journal of Physics, submitted.
- 7. R. L. Mills, P. Ray, "High Resolution Spectroscopic Observation of the Bound-Free Hyperfine Levels of a Novel Hydride Ion Corresponding to a Fractional Rydberg State of Atomic Hydrogen", Int. J. Hydrogen Energy, in press.
- 8. R. L. Mills, E. Dayalan, "Novel Alkali and Alkaline Earth Hydrides for High Voltage and High Energy Density Batteries", Proceedings of the 17<sup>th</sup> Annual Battery Conference on Applications and Advances, California State University, Long Beach, CA, (January 15-18, 2002), in press.
- 9. R. Mayo, R. Mills, M. Nansteel, "On the Potential of Direct and MHD Conversion of Power from a Novel Plasma Source to Electricity for Microdistributed Power Applications", IEEE Transactions on Plasma Science, submitted.
- 10. R. Mills, P. Ray, J. Dong, M. Nansteel, W. Good, P. Jansson, B. Dhandapani, J. He, "Excessive Balmer α Line Broadening, Power Balance, and Novel Hydride Ion Product of Plasma Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", Int. J. Hydrogen Energy, submitted.
- 11. R. Mills, E. Dayalan, P. Ray, B. Dhandapani, J. He, "Highly Stable Novel Inorganic Hydrides from Aqueous Electrolysis and Plasma Electrolysis", Japanese Journal of Applied Physics, submitted.
- 12. R. L. Mills, P. Ray, B. Dhandapani, J. He, "Comparison of Excessive Balmer α Line Broadening of Glow Discharge and Microwave Hydrogen Plasmas with Certain Catalysts", Chem. Phys., submitted.
- 13. R. L. Mills, P. Ray, B. Dhandapani, J. He, "Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen", J. of Phys. Chem. (letter), submitted.
- 14. R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Rydberg States of Atomic Hydrogen", Chem. Phys. Letts., submitted.
- 15. R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "Spectroscopic Identification of Transitions of Fractional Rydberg States of Atomic Hydrogen", Quantitative Spectroscopy and Energy Transfer, submitted.
- 16. R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Quantum Energy Levels of Atomic Hydrogen that Surpasses Internal Combustion", Spectrochimica Acta, Part A, submitted.
- 17. R. L. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Rubidium Ion with Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, in press.
- 18. R. Mills, J. Dong, W. Good, P. Ray, J. He, B. Dhandapani, "Measurement of Energy Balances of Noble Gas-Hydrogen Discharge Plasmas Using Calvet Calorimetry", Int. J. Hydrogen Energy, in press.
- 19. R. L. Mills, A. Voigt, P. Ray, M. Nansteel, B. Dhandapani, "Measurement of Hydrogen Balmer α Line Broadening and Thermal Power Balances of Noble Gas-Hydrogen Discharge Plasmas", Int. J. Hydrogen Energy, in press.
- 20. R. Mills, P. Ray, "Vibrational Spectral Emission of Fractional-Principal-Quantum-Energy-Level Hydrogen Molecular Ion", Int. J. Hydrogen Energy, in press.
- 21. R. Mills, P. Ray, "Spectral Emission of Fractional Quantum Energy Levels of Atomic Hydrogen from a Helium-Hydrogen Plasma and the Implications for Dark Matter", Int. J. Hydrogen Energy, Vol. 27, No. 3, (2002) pp. 301-322.
- 22. R. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Potassium and Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, Vol. 27, No. 2, (2002), pp. 183-192.
- 23. R. Mills, "BlackLight Power Technology-A New Clean Hydrogen Energy Source with the Potential for Direct Conversion to Electricity", Proceedings of the National Hydrogen Association, 12 th Annual U.S. Hydrogen Meeting and Exposition, Hydrogen: The Common Thread, The Washington Hilton and Towers, Washington DC, (March 6-8, 2001), pp. 671-697.



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|                    |                      | First Named Inventor  | Mills  |  |  |
|                    |                      | Group Art Unit  | 1745   |  |  |
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|                       | 113         | R. Mills, "Physical Solutions of the<br>Interactions to Form Excited and P<br>Physics, submitted            | Nature of the redicted Hydron | e Atom Photon, and Their<br>rino States", New Journal of |                |
|                       | 106         | R. L. Mills, "Exact Classical Quan<br>Helium Which Predicts Conjugate<br>First Time". Annales de la Fondati | Parameters fi                 | rom a Unique Solution for the                            |                |
|                       | 102         | R. L. Mills, "Exact Classical Quan<br>Through Twenty-Electron Atoms".                                       | tum Mechani                   | cal Solutions for One-                                   |                |
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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here is English language Translation is attached.

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|                                   | STATEMENT BY APPLICANT |         |       |              | First Named Inventor   | Mills                 |  |  |
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| (use as many sheets as necessary) |                        |         |       | s necessary) | Examiner Name          | -Langel Kalafut       |  |  |
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|   |       | R. Mills, P. Ray, B. Dhandapani, W. Good, P. Jansson, M. Nansteel, J. He. A. Veigt, "Spectroscopic and NMR Identification of Novel Hydride ions in Fractional Quantum Energy States Formed by an Exothermic Reaction of Atomic Hydrogen with Certain Catalysts," J. Phys. Chem. A, submitted. (Web Publication Date: Feb. 21, 2003.)  Attachment 81 |                |
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|   |       | R. Mills, J. He, B. Dhandapani, P. Ray, "Comparison of Catalysts and Microwave Plasma Sources of Vibrational Spectral Emission of Fractional Rydborg State Hydrogen Molecular Ion," Canadian Journal of Physics, submitted. Attachment 79   |                |
|   |       | R. L. Mills P. Ray, J. Dong, M. Nansteel, B. Dhandapani, J. He, "Vibrational Spectral Emission of Fractional-Principal Quentum Energy-Level Molecular Hydrogen," Bulletin of the Chemical Society of Japan, submitted. (Web Publication Date: Sept. 9, 2002.)  Attachment 78  |                |
|   |       | J. Phillips, R. L. Mills, X. Chen, "Water Bath Calorimetric Study of Excess Heat in 'Resonance Transfer' Plasmas," Journal of Applied Physics, submitted. Attachment 77   |                |
|   |       | R. L. Mills, P. Ray. B. Dhandapani, X. Chen, "Comparison of Catalysts and Microwave Plasma Sources of Spectral Emission of Fractional Principal-Quantum-Energy-Level Atomic and Molecular Hydrogen," Journal of Applied Spectroscopy, submitted. (Web Publication Date: Feb. 12, 2002.) Attachment 76   |                |
|   |       | R. L. Mills, P. Ray, B. Dhandapani, J. He, "Novel Liquid-Nitrogen-Condensable Melecular Hydrogen-Gas," Polish Journal of Chemistry, submitted. (Web Publication Date: Oct. 29, 2002.) Attachment 75   |                |

| Examiner<br>Signature | /Stephen Kalafut/ | Date<br>Considered | 11/19/2007 |
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| INFORMATION DISCLOSURE            |                        |               |          |         | Filing Date                | 02/09/2000      |      |
|                                   | STATEMENT BY APPLICANT |               |          |         | First Named Inventor Mills |                 |      |
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| Examiner<br>Initials* | Cite<br>No. 1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T² |
|                       |               | R. L. Mills, P. C. Ray, R. M. Mayo, M. Nansteel, B. Dhandapani, J. Phillips, "Opectroscopic Study of Unique Line Broadening and Inversion in Low Pressure   |    |
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|                       |               | R. L. Mills, J. Sankar, A. Voigt, J. He, B. Dhandapani, "Spectroscopic Characterization of the Atomic Hydrogen Energies and Densities and Carbon Species During Holium Hydrogen-Methane Plasma CVD Synthesis of Diamond Films," Chemistry of                    |    |
|                       |               | Materials, in press. (Web Publication Date: Dec. 31, 2002.) Attachment 69   |    |
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|                       |               | (Web Publication Date: Aug. 16, 2002.) Attachment 68  |    |

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| Substitute for form 14498/PTO     |                        |               |                |    | Complete if Known      |                      |  |
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|                                   | STATEMENT BY APPLICANT |               |                |    | First Named Inventor   | Mills                |  |
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|                       |  | OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS   |    |
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| Examiner<br>Initials* | Cite<br>No. 1  | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, calalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T² |
|                       |  | R. L. Mills, P. Ray, B. Dhandapani, J. He, "Extreme Ultraviolet Spectroscopy of Hellum-Hydrogen Plasma," J. Phys. B, submitted: (Web Publication Date: July 17, 2002.) Attachment 67  |    |
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|                       |  | R. L. Mills, J. Sankar, A. Voigt, J. He, B. Dhandapani, "Low Power MPCVD of Diamond Films on Silicon Substrates," Journal of Vacuum Science & Technology A, submitted. (Web Publication Date: June 26, 2002.) Attachment 64                                     |    |
|                       |  | R. L. Mills, X. Chen, P. Ray, J. He, B. Dhandapani, "Plasma Power Source Based on a Gatalytic Reaction of Atomic Hydrogen Measured by Water Bath Calorimetry," Thermochimica Acta, submitted. (Web Publication Date: June 25, 2002.) Attachment 63              |    |
|                       |  | R. L. Mills, A. Voigt, B. Dhandapani, J. Ho, "Synthesis and Spectroscopic Identification of Lithium Chloro Hydride," Materials Characterization, submitted. Attachment 62   |    |
|                       |  | R. L. Mills, B. Dhandapani, J. He, "Highly Stable Amorphous Silicon Hydride," Solar   |    |
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| Examiner /Stephen Kalafut/ | Date<br>Considered | 11/19/2007 |
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|   |               | OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS  |    |
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| Examiner<br>Initials*                   | Cite<br>No. 1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.  | T² |
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|   |               | R. Mills, P. Ray, R. M. Mayo, "The Potential for a Hydrogen Water-Plasma Laser,"  Applied Physics Letters, in press. (Web Publication Date: July 11, 2002.) Attachment  59   |    |
| <b></b>                                 |               | R. L. Mills, "Classical Quantum Mechanics," Physics Essays, submitted. (Web Publication Date: May 23, 2002.) Attachment 58   |    |
|   |               | R. L. Mills, P. Ray, "Spectroscopic Characterization of Stationary Inverted Lyman Populations and Free-Pre- and Bound-Free Emission of Lower Energy State Hydride Ion Formed by a Catalytic Reaction of Atomic Hydrogen and Certain Group I Catalysis, Quantitative Spectroscopy and Radiative Transfer, in press. Attachment 57 |    |
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| Sheet                  | 6                    | of     | 1      | 47      | Attorney Docket Number | 62-226-8AC4-DIV1     |  |  |

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|                    |               | R. Mills, P. Ray, R. Mayo, "Water-Plasma Medium for a Hydrogen Laser", J of Phys. Chem. Lett., submitted.   |                |
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|                    | ļ             | R. L. Mills, B. Dhandapani, J. He. J. Sankar, "CVD Synthesis of Single Crystal Diamond Films on Silicon Substrates Without Seeding", Diamond and Related Materials, submitted.  |                |
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Copies have not been received.

Examiner Signature /Stephen Kalafut/ Date Considered 11/19/2007

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| Sheet 7 of 2 47                   | Attorney Docket Number | 62-226-8AC4-DIV1                        |  |  |

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Examiner Signature /Stephen Kalafut/ Date Considered 11/19/2007

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here is English language Translation is attached.

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|                                   |                    | . •   |      |       | Application Number                                 | 21               |         |  |
| IN                                | FORMAT             | ION D | ISCI | OSURE | Filing Date  | February 9, 2000 |         |  |
| STATEMENT BY APPLICANT            |                    |       |      |       | First Named Inventor Mills                         |                  |         |  |
|                                   |                    |       |      |       | Group Art Unit                                     | 4764             | 1745    |  |
| (use as many sheets as necessary) |                    |       |      |       | Examiner Name Lange                                |                  | Kalafut |  |
| Sheet                             | 8                  | of    | 7    | 47    | Attorney Docket Number                             | 62-226-8A        | C4-DIV1 |  |

| Examiner<br>Initials* | Cite<br>No. 1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.              | T² |
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|   | Examiner<br>Signature | /Stephen Kalafut/ | Date<br>Considered | 11/19/2007 |

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here is English language Translation is attached.

| Substitute for form 1449A/PTO     | Complete if Known      |                      |  |  |  |
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|                                   | Application Number     | 09/501,621           |  |  |  |
| INFORMATION DISCLOSURE            | Filing Date            | February 9, 2000     |  |  |  |
| STATEMENT BY APPLICANT            | First Named Inventor   | Mills                |  |  |  |
| - r                               | Group Art Unit         | <del>1754</del> 1745 |  |  |  |
| (use as many sheets as necessary) | Examiner Name          | -Langel Kalafut      |  |  |  |
| Sheet 9 of \$ 47                  | Attorney Docket Number | 62-226-8AC4-DIV1     |  |  |  |

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| vant Figures | Relevani<br>Passages or Relevant Figu<br>Appear | MM-DD-YYYY                               | o. o.co occurren                                | Kind Code"<br>(If known) | Number      |             |                    |
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|              |   | 02-28-1989                               | Angelo II                                       |                          | 4.808,286   | -           |                    |
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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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| STATEMENT BY APPLICANT            |       |                      |                               | LICANT                          | First Named Inventor   | Mills  |  |
|                                   |       |                      |                               |                                 | Group Art Unit   | <del>-1754 </del> 1745   |  |
| (use as many sheets as necessary) |       |                      |                               | essary)                         | Examiner Name  | Langel Kalafut   |  |
| 1                                 | 10    | of                   | 1                             | 47                              | Attorney Docket Number   | 62-226-8AC4-DIV1   |  |
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| Examiner | Cite  | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the  | Т              |
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| nitials* | No. 1 | item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.                          | T <sup>2</sup> |
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| STA           | STATEMENT BY APPLICANT |          |       |          | First Named Inventor Mills |                  |         |  |
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| (             | use as many            | sheets a | s ned | cessary) | Examiner Name              | -Langel-         | Kalafut |  |
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| Sheet      | 12                   | of     | 47           | Attorney Docket Number | 62-226-8AC4-DIV1       |  |  |  |

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| Examiner<br>Initials* | Cite<br>No.                                      | U.S. Pate | ent Document             | Name of Patentee of Applicant of Cited Document | Date of Publication of<br>Cited Document | Pages, Columns, Lines, Where                 |  |  |  |
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| /SK/               |  | wo                  | 99/05735           | A1                                   | Mills                       | 03-04-1999                               |  |    |
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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.



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| IN         | FORMAT            | ION DI     | SCLOSURE     | Filing Date            | February 9, 2000     |  |  |
| ST         | TATEMEN           | IT BY      | APPLICANT    | First Named Inventor   | Mills                |  |  |
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|               | OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS   |  |
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| Cite<br>No. 1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T²   |
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| Examiner /Stephen Kalafut/ | Date<br>Considered | 11/19/2007 |
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| STATEMENT BY APPLICANT            |                    |    |               | LICANT | First Named Inventor   | Mills            |      |
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|                               |         | Application Number         | 09/501,621      |         |  |
| INFORMATION DISCL             | OSURE   | Filing Date                | 02/09/200       | 0       |  |
| STATEMENT BY APP              | LICANT  | First Named Inventor Mills |                 |         |  |
|                               |         | Group Art Unit             | <del>1754</del> | 1745    |  |
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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here is English language Translation is attached.

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| STA    | MENT!             | BY A   | PPLICANT             | First Named Inventor   | Mills        |
|        |                   |        |                      | Group Art Unit         | 1745         |
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| STATEMENT BY APPLICANT            |  |       |                    | First Named Inventor   | Mills      |  |
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| STA                           | STATEMENT BY APPLICANT            |    |   |    | First Named Inventor   | Mills      |  |
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here If English language Translation is attached.

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| ST         | INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)  Sheet 19 35 of 24 | ANT       | First Named Inventor | Mills        |            |                        |            |  |  |
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| Examiner<br>Signature  |               |   |                                    |  |   |  |  |  |  |

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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| INFORMATION DISCLOSURE                     | Filing Date            | 02/02/2000                            |  |  |  |
| STATEMENT BY APPLICANT                     | First Named Inventor   | Mills                                 |  |  |  |
| •  | Group Art Unit         | 1745                                  |  |  |  |
| (use as many sheets as necessary)          | Examiner Name          | Kalafut                               |  |  |  |
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| Examiner<br>Signature |               | /Stephen Kalafut/   | Date<br>Considered                   | 11/19/2007  | 1           |  |  |  |  |  |

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|                        |               | 34. Mills et al., "Spectroscopic Identification Atomic Hydrogen," J. of Quantitative Spectropublication Date: Oct. 9, 2004.)  | n of Transitions<br>oscopy and Ra  | of Fractional Rydberg States of adiative Transfer, in press. (Internet |  |  |  |  |
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| Examiner<br>Signature |               | /Stephen Kalafut/   | Date<br>Considered  | 11/19/2007                            |                |  |  |  |

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